

Title (en)
VIBRATING DEVICE FOR THE ORDERLY REARRANGEMENT OF FOLDING BOXES IN A CONTAINER, DISCHARGING CONVEYOR AND METHOD FOR DISCHARGING CONTAINERS

Title (de)
VIBRIERENDE VORRICHTUNG ZUR NEUANORDNUNG IN REIHENFOLGE VON FALTSCHACHTELN IN EINEM BEHÄLTER, AUSGABEFÖRDERER UND VERFAHREN ZUR AUSGABE VON BEHÄLTERN

Title (fr)
DISPOSITIF VIBRATEUR POUR LE REARRANGEMENT ORDONNE DE BOITES PLIANTES DANS UN RECIPIENT, CONVOYEUR D'EVACUATION ET PROCEDE D'EVACUATION DE RECIPIENTS

Publication
EP 3464075 A1 20190410 (FR)

Application
EP 17723014 A 20170515

Priority
• EP 16020187 A 20160525
• EP 2017025126 W 20170515

Abstract (en)
[origin: WO2017202499A1] A vibrating device (14) effects the orderly rearrangement of folding boxes (3) in a container (2) for a discharging conveyor (8), provided with drive members (12), the tops of which define a horizontal transport plane (S2). The device comprises: - a moving support (15) that is able to support a container (2) loaded with folding boxes (3), the support (15) having a contact surface (S1) intended to come into contact with the container (2), and - at least one controllable actuator (16a, 16b, 16c, 16d) having a movable end connected to the support (15) in order to be able to move the support (15) between: - a retracted position in which the contact surface (S1) is positioned below the horizontal transport plane (S2), allowing contact between the container (2) and the drive members (12), and - a deployed position in which the contact surface (S1) is positioned above the horizontal transport plane (S2), preventing contact between the container (2) and the drive members (12), the actuator (16a, 16b, 16c, 16d) also being configured to vibrate the support (15) about the deployed position in order to reorder the arrangement of the folding boxes (3) contained in the container (2).

IPC 8 full level
B65B 5/10 (2006.01); **B65B 1/22** (2006.01); **B65B 25/14** (2006.01); **B65B 39/00** (2006.01); **B65B 43/52** (2006.01); **B65B 43/54** (2006.01); **B65B 61/24** (2006.01); **B65B 61/28** (2006.01); **B65B 65/00** (2006.01)

CPC (source: EP KR US)
B01F 31/24 (2022.01 - US); **B65B 1/22** (2013.01 - KR US); **B65B 5/108** (2013.01 - EP KR); **B65B 25/143** (2013.01 - EP KR US); **B65B 25/145** (2013.01 - EP KR US); **B65B 43/52** (2013.01 - KR US); **B65B 43/54** (2013.01 - KR US); **B65B 61/24** (2013.01 - EP KR); **B65B 61/28** (2013.01 - KR US); **B65B 65/003** (2013.01 - EP KR US); **B65B 1/22** (2013.01 - EP); **B65B 43/52** (2013.01 - EP); **B65B 43/54** (2013.01 - EP); **B65B 61/28** (2013.01 - EP)

Citation (search report)
See references of WO 2017202499A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017202499 A1 20171130; BR 112018074184 A2 20190306; BR 112018074184 B1 20221025; CA 3025560 A1 20171130; CA 3025560 C 20211026; CN 109476385 A 20190315; CN 109476385 B 20211123; EP 3464075 A1 20190410; EP 3464075 B1 20230809; ES 2954925 T3 20231127; JP 2019516636 A 20190620; JP 6752902 B2 20200909; KR 102216232 B1 20210217; KR 102375731 B1 20220316; KR 20190010654 A 20190130; KR 20210018972 A 20210218; PL 3464075 T3 20231211; US 11613387 B2 20230328; US 2020317376 A1 20201008

DOCDB simple family (application)
EP 2017025126 W 20170515; BR 112018074184 A 20170515; CA 3025560 A 20170515; CN 201780045946 A 20170515; EP 17723014 A 20170515; ES 17723014 T 20170515; JP 2018561951 A 20170515; KR 20187037526 A 20170515; KR 20217003916 A 20170515; PL 17723014 T 20170515; US 201716303949 A 20170515